Surveillance and Broadcast Services

Federal Aviation Administration

Surveillance and Broadcast Services

Traffic Information Service - Broadcast (TIS-B)

TIS-B transmit surveillance data to equipment in the aircraft and provides ADS-B equipped aircraft with position reports from secondary surveillance sources for non-ADS-B equipped aircraft.

Flight Information Service - Broadcast (FIS-B)

FIS-B transmits graphical National Weather Service products, Temporary Flight Restrictions (TFRs) and special use airspace information.

Automatic Dependent Surveillance - Broadcast (ADS-B)

Automatic - Periodically transmits information with no pilot or operator input required

Surveillance - A method of determining position of aircraft, vehicles or other asset

Dependent - Position and velocity vector are derived from the Global Positioning System (GPS) or a Flight Management System (FMS)

Broadcast - Transmitted information available to anyone with the appropriate receiving equipment

ADS-B system is a crucial component of the Next Generation Air Transportation System (NextGen). It provides surveillance and situational awareness simultaneously to pilots and air traffic control facilities. ADS-B is designed to improve the safety, capacity and effciency of the national airspace system while providing a flexible expandable platform to accommodate future air traffic growth. ADS-B provides improved situational awareness with the following information in the cockpit:

- Heading
- Altitude
- Speed
- Aircraft category
- Call sign
- Distance